Drinking Water Source Assessment

Water System

Sebastopol, City of

Sonoma County

Water Source

WELL 02

Assessment Date

November, 1998

California Department of Health Services Drinking Water Field Operations Branch DHS Sonoma District

District No. 18

System No. 4910011

Source No. 001

PS Code 06N/09W-02C01 M

Assessn	nent Summary					
District Name	DHS Sonoma District	District No. 18	County	Sonoma		
System Name	Sebastopol, City of			Syste	m No.	4910011
Source Name	WELL 02	Source No.	001	PS Code	06N/0	09W-02C01 M
Completed by	Leah Walker	Date	Novemb	er, 1998		

Description of System and Source

The Sebastopol water system is located in Sonoma County and serves the City of Sebastopol. There are approximately 2,675 service connections serving a population of 7,575.

The City of Sebastopol obtains all of its water from underground wells that draw water from depths between 130 to 690 feet below ground. There are currently five wells, all located within the City limits along a major transportation corridor, Highway 116. The wells are located 1,300 feet or more to the west of a perennial waterway known as the Laguna de Santa Rosa, which is a major tributary to the Russian River.

Well 02, the subject of this assessment, was constructed in 1934, the oldest of the City's wells. It is 600 feet deep and produces approximately 480 gallons per minute.

Previous studies have determined that the principal recharge area for the Sebastopol wells is from the portion of the Wilson Grove Formation (formerly known as the Merced Formation) in the rolling hills west of the City. There is some additional recharge from the east.

Land use in the vicinity of the wells includes municipal, industrial, residential, and commercial activities within the City limits. The protection zones and recharge areas extend into the rural areas just outside the City.

Assessment Procedures

The assessment of the source WELL 02 was conducted by the California Department of Health Services in conjunction with the City of Sebastopol as a demonstration of the Drinking Water Source Assessment and Protection (DWSAP) program. The City was fortunate to have several studies conducted regarding their water supplies and the ground water resources in the area. This information included a map of the recharge area and approximate flow directions. This information was the basis for using the Modified Calculated Fixed Radius delineation method.

Due to the relative proximity of the five wells, the protection zones for the wells overlap. The City and DHS chose to define one set of larger zones that encompasses the protection zones for all five wells. The PCA inventory and vulnerability ranking portions of the assessment were conducted for the larger combined zones, and not for each well separately.

The following sources of information were used in the assessment: DHS water system files, City files, City personnel, CUPA (Certified Unified Program Agency) records, and previous studies.

Procedures used to conduct the assessment included: meetings with the City to conduct the inventory, and file reviews.

Discussion of Vulnerability

One of the five wells (Well 05) in the City's drinking water system is currently shut down due to contamination by tetrachloroethylene (PCE). Another well (04) has shown very low levels of petroleum products (1,2-DCA, Benzene, and MTBE), but is still on-line though the use is limited. The most likely source of contamination of the wells is commercial activities (dry cleaners and gas stations) within the City limits. Due to the loss of production capacity, the City recently constructed a new well (07) at substantial cost.

Assessment Summary				
System Name Sebastopol, City of		System No. 4910011		
Source Name WELL 02	Source No. 001	PS Code06N/09W-02C01 M		

Contents of this Assessment

Yes X	No 🗌	Assessment Summary
Yes X	No 🗌	Vulnerability Summary
Yes	No 🗶	Source Location Form
Yes 🛚	No 🗌	Delineation of Ground Water Protection Zones
Yes 🛚	No 🗌	Physical Barrier Effectiveness Checklist
Yes X	No 🗌	Well Data Sheet
Yes X	No 🗌	Inventory of Possible Contaminating Activities
Yes X	No 🗌	Vulnerability Ranking
Yes X	No 🗆	Assessment Map

Drinking Water Source Assessment and Protection (DWSAP) Program						
Vulnerab	oility Summary					
District Name System Name Source Name	DHS Sonoma District Sebastopol, City of WELL 02	District No18 Source No.	Syste	em No. <u>4910011</u> 06N/09W-02C01 M		
Completed by	Leah Walker	Date	November, 1998			
THE	THE FOLLOWING INFORMATION MUST BE INCLUDED IN THE SYSTEM CONSUMER CONFIDENCE REPORT					
A source water assessment was conducted for the <u>WELL 02</u> of the <u>Sebastopol, City of</u> water system in <u>November, 1998</u> .						
	s considered most vulnerable to nants detected in the water supp Automobile- Gas stations Dry cleaners Known Contaminant Plumes Underground storage tanks -	oly:				

The source is considered most vulnerable to the following activities not associated with any detected contaminants:

Chemical/petroleum processing/storage Historic gas stations Metal plating/ finishing/fabricating Plastics/synthetics producers Septic systems - high density

A copy of the complete assessment may be viewed at:

DHS Sonoma District Office 50 D Street, Suite 200 Santa Rosa, CA 95404

You may request a summary of the assessment be sent to you by contacting:

District Engineer 707-576-2145

Delineatio	n of Ground Water I	Protection Zone	es	
District Name	DHS Sonoma District	District No. 18	County	Sonoma
System Name	Sebastopol, City of			System No. 4910011
Source Name	WELL 02	Source No	001	PS Code 06N/09W-02C01 M
Completed by	Leah Walker	Date	Novemb	per, 1998

Method Used to Delineate Protection Zones

1. Calculated Fixed Radius

X 2. Modified Calculated Fixed Radius (Attach documentation for direction of ground water flow.)

- 3. More Detailed Methods
- 4. Arbitrary Fixed Radius (For use only by or permission of DHS)

Maximum Pumping Rate of Well (Q)	480 774 33,728,160	1	gallons/minute acre feet/year cubic feet/year
Effective Porosity	0.15	%	Default Value
Screened Interval of Well	268	fee	et Default Value
Direction of Ground Water Flow	90.00	ded	arees

Protection Zone	Calculated Value	Minimum Value	Base Radius	Direction	Modified Distance
Zone A - 2 Year TOT*	731 Feet	600 Feet	731 Feet	upgradient	1,096 Feet
				downgradient	365 Feet
Zone B5 - 5 Year TOT*	1,156 Feet	1,000 Feet	1,156 Feet	upgradient	1,733 Feet
				downgradient	578 Feet
Zone B10 - 10 Year TOT*	1,634 Feet	1,500 Feet	1,634 Feet	upgradient	2,451 Feet
				downgradient	817 Feet

Phy	sical	Barrier	Effectiveness	(PBE)	
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District Name	DHS Sonoma District	District No18	County	Sonoma		
System Name	Sebastopol, City of			Syste	em No. <u>4910011</u>	
Source Name	WELL 02	Source No.	001	PS Code _	06N/09W-02C01 M	
Completed by	l eah Walker	Date	Novemb	er 1998		

Parameter		Possible Points	This Source	Score
Type of Aquifer Confinement				
1. Unconfined, Semi-confined, Fractured Rock, Unknow	n Aquifer	0	Х	0
2. Confined		50		
Aquifer Material (Unconfined Aquifers) Type of material within aquifer				
 Porous Media (Interbedded sands, silts, clays, grave minimum 25' thick above water table within Zone A 	ls) with continuous clay layer	20		
2. Porous Media (Interbedded sands, silts, clays, grave	ls)	10	X	10
3. Fractured rock (Low Physical Barrier Effectiveness -	no further questions required)	0		
Pathways of Contamination (All Aquifers) Presence of Abandoned or Improperly Destroyed We	lls			
1. Present within Zone A (2 year TOT distance)	Yes	0		
	No	5		
	Unknown	0	X	0
2. Present within Zone B5 (2 -5 year TOT distance)	Yes	0		
	No	3		
	Unknown	0	X	0
3. Present within Zone B10 (5-10 year TOT distance)	Yes	0		
	No Links and	2		•
	Unknown	0	X	0
Static Water Conditions (Unconfined Aquifers)				
Donath to Chatic Michael (DTM) 116	0 to 20 feet	0		
Depth to Static Water (DTW)feet	20 to 50 feet	2		
	50 to 100 feet	6		
	Greater than 100 feet	10	X	10
	Unknown	0		
Well Operation (Unconfined Aquifers)				
Depth to Uppermost Perforations (DUP)	332 feet			
. ,	180 gallons/minute			
. •	!68 feet			
	Less than 5	0		
[DUP - DTW / Q/H]	Between 5 and 10	5		
	Greater than 10	10	Χ	10
	Unknown	0		

Physical Barrier Effectiveness (PBE)

System Name	Sebastopol, City of			System I	No. 4910011	
Source Name	WELL 02	Source No.	001	PS Code	06N/09W-02C01 M	

Parameter		Possible Points	This Source	Score
Well Construction (All Aquifers)				
Sanitary Seal (Annular Seal) Depth	None or less than 20 feet	0		
0 feet	Between 20 and 50 feet	6		
	50 feet or greater	10		
	Unknown	0	Х	0
Surface Seal (concrete cap)	Not present or improperly constructed	0		
	Watertight, slopes away from well at least 2' laterally in all directions	way from well all directions 4	Х	4
	Unknown	0		
Flooding potential at well site	Subject to localized flooding (i.e. in low area or unsealed pit or vault) or within 100 year flood plain	0		
	Not subject to flooding	1	Х	1
	Unknown	0		
Security at well site	Not secure	0		
	Secure	5	X	5
	Unknown	0		

Score	Effectiveness
0 to 35	Low
36 to 69	Moderate
70 to 100	High

Maximum Score = 70

Score	40
Effectiveness	Moderate

District Name	DHS Sonoma District	District No. 18	County	Sonoma			
System Name	Sebastopol, City of			Syste	m No	4910011	
Source Name	WELL 02	Source No.	001	PS Code _	06N/09	9W-02C01 M	
Completed by	Leah Walker	Date	May, 19	98			

PCA (Risk Ranking)	PCA in Zone A	PCA in Zone B5	PCA in Zone B10	*	Comments
Commercial/Industrial					
Automobile- Body shops (H)	Υ	N	N		
Automobile- Car washes (M)	Υ	N	N		
Automobile- Gas stations (VH)	Υ	N	N	*	1,2-DCA Well 4
Automobile- Repair shops (H)	Υ	N	N		
Boat services/repair/ refinishing (H)	Υ	N	N		Inland Marine
Chemical/petroleum pipelines (H)	U	U	U		
Chemical/petroleum processing/storage (VH)	Υ	N	N		R&S bulk plant
Dry cleaners (VH)	Υ	N	N	*	PCE Well 5
Electrical/electronic manufacturing (H)	N	Υ	N		Depot Street
Fleet/truck/bus terminals (H)	Υ	Υ	N		Car dealers?
Furniture repair/ manufacturing (H)	Υ	N	Υ		
Home manufacturing (H)	N	N	N		
Junk/scrap/salvage yards (H)	Υ	N	N		Creekside Industrial
Machine shops (H)	N	N	Υ		
Metal plating/ finishing/fabricating (VH)	Υ	Υ	Υ		West Valley welding, P&L, cannery
Photo processing/printing (H)	Y	Y	N		Seb. Times, 258 Petaluma, South Point, Wine Press
Plastics/synthetics producers (VH)	Υ	N	N		
Research laboratories (H)	N	N	N		
Wood preserving/treating (H)	N	N	Y		Miller Door
Wood/pulp/paper processing and mills (H)	N	N	N		
Lumber processing and manufacturing (H)	U	U	U		Not on original PCA inventory
Sewer collection systems (H, if in Zone A, otherwise L)	Υ	Υ	Υ		
Parking lots/malls (>50 spaces) (M)	Υ	Υ	Υ		Burnett, High St, Vet's, Plaza, Theatre
Cement/concrete plants (M)	N	N	N		
Food processing (M)	Υ	Υ	Υ		VacuDry, Speas, Cherry Foods, Barlow
Funeral services/graveyards (M)	Υ	N	N		Parent-Sorenson
Hardware/lumber/parts stores (M)	Υ	Υ	Υ		Columbo, hardware store, lumber yard
		1	l	-	

Y = Yes N = No U = Unknown

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System Name	Sebastopol, City of			System No.	4910011
Source Name	WFII 02	Source No.	001	PS Code 06N	/09W-02C01 M

Source Name WELL 02	S	ource No.	001		PS Code06N/09W-02C01 M
PCA (Risk Ranking)	PCA in Zone A	PCA in Zone B5	PCA in Zone B10	*	Comments
Commercial/Industrial					
Appliance/Electronic Repair (L)	Υ	N	N		
Office buildings/complexes (L)	Υ	Υ	N		
Rental Yards (L)	N	Υ	N		
RV/mini storage (L)	Y	N	N		mini-storage
Residential/Municipal					
Airports - Maintenance/ fueling areas (VH)	N	N	N		
Landfills/dumps (VH)	N	N	N		
Railroad yards/ maintenance/ fueling areas (H)	Υ	Υ	Υ		historic
Septic systems - high density (>1/acre) (VH if in Zone A, otherwise M)	Y	Y	Y		Lynch Rd, St. Helena, Pearl Ct
Sewer collection systems (H, if in Zone A, otherwise L)	Υ	Υ	Υ		
Utility stations - maintenance areas (H)	N	N	N		
Wastewater treatment plants (VH in Zone A, otherwise H)	N	N	N		
Drinking water treatment plants (M)	Y	Υ	N		chlorinators, Fircrest, Kelly, VacuDry
Golf courses (M)	N	N	N		
Housing - high density (>1 house/0.5 acres) (M)	Y	Υ	Υ		
Motor pools (M)	Y	N	N		
Parks (M)	N	Υ	N		
Waste transfer/recycling stations (M)	Y	N	Υ		Fircrest, safeway
Apartments and condominiums (L)	Y	Υ	Υ		
Campgrounds/ Recreational areas (L)	N	N	Υ		
Fire stations (L)	N	Υ	N		
RV Parks (L)	N	N	N		
Schools (L)	N	Υ	N		
Hotels, Motels (L)	U	U	U		Not on original PCA inventory
Agricultural/Rural					
Grazing (> 5 large animals or equivalent per acre) (H in Zone A, otherwise M)	N	N	N		
Concentrated Animal Feeding Operations (CAFOs) as defined in federal regulation1 (VH in Zone A, otherwise	N	N	N		

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Source Name WELL 02	S	ource No.	001		PS Code06N/09W-02C01 M
PCA (Risk Ranking)	PCA in Zone A	PCA in Zone B5	PCA in Zone B10	*	Comments
Agricultural/Rural					
H)					
Animal Feeding Operations as defined in federal regulation2 (VH in Zone A, otherwise H)	N	N	N		
Other Animal operations (H in Zone A, otherwise M)	N	N	N		
Farm chemical distributor/ application service (H)	Y	N	N		Frizelle Enos
Farm machinery repair (H)	U	U	U		
Septic systems - low density (<1/acre) (H in Zone A, otherwise L)	Y	Υ	Y		
Lagoons / liquid wastes (H)	N	Υ	N		VacuDry
Machine shops (H)	N	Υ	N		VacuDry, Rental yard
Pesticide/fertilizer/ petroleum storage & transfer areas (H)	U	U	U		
Agricultural Drainage (H in Zone A, otherwise M)	U	U	U		Not on original PCA inventory
Wells - Agricultural/ Irrigation (H)	U	U	U		
Managed Forests (M)	N	N	N		
Crops, irrigated (Berries, hops, mint, orchards, sod, greenhouses, vineyards, nurseries, vegetable) (M)	N	N	Υ		Cooper Rd
Fertilizer, Pesticide/ Herbicide Application (M)	U	U	U		
Sewage sludge/biosolids application (M)	N	N	N		
Crops, nonirrigated (e.g., Christmas trees, grains, grass seeds, hay, pasture) (L) (includes drip-irrigated crops)	N	N	Y		
Other					
NPDES/WDR permitted discharges (H)	U	U	U		
Underground Injection of Commercial/Industrial Discharges (VH)	N	N	N		
Historic gas stations (VH)	Υ	N	N		
Historic waste dumps/ landfills (VH)	U	U	U		
Illegal activities/ unauthorized dumping (H)	U	U	U		
Injection wells/ dry wells/ sumps (VH)	U	U	U		
Known Contaminant Plumes (VH)	Υ	Υ	N	*	1,2 DCA, PCE
Military installations (VH)	N	N	N		

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Source Name	WFII 02	Source No.	001	PS Code 06N	J/09W-02C01 M

Source Name WELL 02	S	ource No.	001		PS Code06N/09W-02C01 M
PCA (Risk Ranking)	PCA in Zone A	PCA in Zone B5	PCA in Zone B10	*	Comments
Other					
Mining operations - Historic (VH)	N	N	N		
Mining operations - Active (VH)	N	N	N		
Mining - Sand/Gravel (H)	N	N	N		
Wells - Oil, Gas, Geothermal (H)	U	U	U		
Salt Water Intrusion (H)	N	N	N		
Recreational area - surface water source (H)	N	N	N		
Underground storage tanks - Confirmed leaking tanks (VH)	Y	Y	Y	*	1,2-DCA Royal Petroleum, Shell
Underground storage tanks - Decommissioned - inactive tanks (L)	Υ	Υ	Y		
Underground storage tanks - Non-regulated tanks (tanks smaller than regulatory limit) (H)	N	N	N		
Underground storage tanks - Not yet upgraded or registered tanks (H)	U	U	U		
Underground storage tanks - Upgraded and/or registered - active tanks (L)	Υ	Y	Y		
Above ground storage tanks (M)	N	Υ	N		fire station
Wells - Water supply (M)	Υ	Υ	Υ		
Construction/demolition staging areas (M)	U	U	U		
Contractor or government agency equipment storage yards (M)	N	Υ	N		plaza (historic)
Dredging (M)	N	N	N		
Transportation corridors - Freeways/state highways (M)	Y	Υ	Y		
Transportation corridors - Railroads (M)	N	N	N		
Transportation corridors - Historic railroad right-of-ways (M)	Υ	Υ	Y		
Transportation corridors - Road Right-of-ways (herbicide use areas) (M)	Υ	Υ	Y		bike path
Transportation corridors - Roads/ Streets (L)	Y	Υ	Y		
Hospitals (M)	Y	Υ	N		
Storm Drain Discharge Points (M)	U	U	U		
Storm Water Detention Facilities (M)	U	U	U		

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System No. **System Name** Sebastopol, City of 4910011 Source No. Source Name WELL 02 001 PS Code 06N/09W-02C01 M PCA in PCA in PCA in PCA (Risk Ranking) Zone A Zone B5 Zone B10 Comments Other Artificial Recharge Projects - Injection wells (potable Ν Ν Ν water) (L) Artificial Recharge Projects - Injection wells (non-potable Ν Ν Ν water) (M) Artificial Recharge Projects - Spreading Basins (potable Ν Ν water) (L) Artificial Recharge Projects - Spreading Basins Ν Ν (non-potable water) (M) Medical/dental offices/clinics (L) Y Y Ν Υ Veterinary offices/clinics (L) Ν Ν

Υ

Υ

Υ

Υ

Υ

Υ

Calder Cr, Witter Cr

Surface water - streams/ lakes/rivers (L)

Wells - monitoring, test holes (L)

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System Name	Sebastopol, City of			System No.	4910011
Source Name	WELL 02	Source No.	001	PS Code06N/0	09W-02C01 M

 Completed by
 Leah Walker
 Date
 November, 1998

Zone	PCA (Risk Ranking)	*	PCA Risk Points	Zone Points	PBE Points	Vulnerability Score
Α	Automobile- Gas stations (VH)	*	7	5	3	15
Α	Dry cleaners (VH)	*	7	5	3	15
Α	Known Contaminant Plumes (VH)	*	7	5	3	15
Α	Underground storage tanks - Confirmed leaking tanks (VH)	*	7	5	3	15
B5	Known Contaminant Plumes (VH)	*	7	3	3	13
B5	Underground storage tanks - Confirmed leaking tanks (VH)	*	7	3	3	13
B10	Underground storage tanks - Confirmed leaking tanks (VH)	*	7	1	3	11
Α	Chemical/petroleum processing/storage (VH)		7	5	3	15
Α	Historic gas stations (VH)		7	5	3	15
Α	Metal plating/ finishing/fabricating (VH)		7	5	3	15
Α	Plastics/synthetics producers (VH)		7	5	3	15
Α	Septic systems - high density (>1/acre) (VH if in Zone A, otherwise M)		7	5	3	15
Α	Automobile- Body shops (H)		5	5	3	13
Α	Automobile- Repair shops (H)		5	5	3	13
Α	Boat services/repair/ refinishing (H)		5	5	3	13
Α	Farm chemical distributor/ application service (H)		5	5	3	13
Α	Fleet/truck/bus terminals (H)		5	5	3	13
Α	Furniture repair/ manufacturing (H)		5	5	3	13
Α	Junk/scrap/salvage yards (H)		5	5	3	13
Α	Photo processing/printing (H)		5	5	3	13
Α	Railroad yards/ maintenance/ fueling areas (H)		5	5	3	13
Α	Septic systems - low density (<1/acre) (H in Zone A, otherwise L)		5	5	3	13
Α	Sewer collection systems (H, if in Zone A, otherwise L)		5	5	3	13
Α	Sewer collection systems (H, if in Zone A, otherwise L)		5	5	3	13
B5	Metal plating/ finishing/fabricating (VH)		7	3	3	13
Α	Automobile- Car washes (M)		3	5	3	11
Α	Drinking water treatment plants (M)		3	5	3	11
Α	Food processing (M)		3	5	3	11
Α	Funeral services/graveyards (M)		3	5	3	11

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 Sebastopol, City of
 System No.
 4910011

 Source Name
 WELL 02
 Source No.
 001
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Zone	PCA (Risk Ranking)	*	PCA Risk Points	Zone Points	PBE Points	Vulnerability Score
Α	Hardware/lumber/parts stores (M)		3	5	3	11
Α	Hospitals (M)		3	5	3	11
Α	Housing - high density (>1 house/0.5 acres) (M)		3	5	3	11
Α	Motor pools (M)		3	5	3	11
Α	Parking lots/malls (>50 spaces) (M)		3	5	3	11
Α	Transportation corridors - Freeways/state highways (M)		3	5	3	11
Α	Transportation corridors - Historic railroad right-of-ways (M)		3	5	3	11
Α	Transportation corridors - Road Right-of-ways (herbicide use areas) (M)		3	5	3	11
Α	Waste transfer/recycling stations (M)		3	5	3	11
Α	Wells - Water supply (M)		3	5	3	11
B5	Electrical/electronic manufacturing (H)		5	3	3	11
B5	Fleet/truck/bus terminals (H)		5	3	3	11
B5	Lagoons / liquid wastes (H)		5	3	3	11
B5	Machine shops (H)		5	3	3	11
B5	Photo processing/printing (H)		5	3	3	11
B5	Railroad yards/ maintenance/ fueling areas (H)		5	3	3	11
B10	Metal plating/ finishing/fabricating (VH)		7	1	3	11
Α	Historic waste dumps/ landfills (VH)		7	0	3	10
Α	Injection wells/ dry wells/ sumps (VH)		7	0	3	10
B5	Historic waste dumps/ landfills (VH)		7	0	3	10
B5	Injection wells/ dry wells/ sumps (VH)		7	0	3	10
B10	Historic waste dumps/ landfills (VH)		7	0	3	10
B10	Injection wells/ dry wells/ sumps (VH)		7	0	3	10
Α	Apartments and condominiums (L)		1	5	3	9
Α	Appliance/Electronic Repair (L)		1	5	3	9
Α	Medical/dental offices/clinics (L)		1	5	3	9
Α	Office buildings/complexes (L)		1	5	3	9
Α	RV/mini storage (L)		1	5	3	9
Α	Surface water - streams/ lakes/rivers (L)		1	5	3	9
Α	Transportation corridors - Roads/ Streets (L)		1	5	3	9
Α	Underground storage tanks - Decommissioned - inactive tanks (L)		1	5	3	9
Α	Underground storage tanks - Upgraded and/or registered - active tanks		1	5	3	9

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System Name	Sebastopol, City of			System No	4910011
Source Name	WFII 02	Source No.	001	PS Code 06	N/09W-02C01 M

Zone	PCA (Risk Ranking)	*	PCA Risk Points	Zone Points	PBE Points	Vulnerability Score
	(L)					
Α	Wells - monitoring, test holes (L)		1	5	3	9
B5	Above ground storage tanks (M)		3	3	3	9
B5	Contractor or government agency equipment storage yards (M)		3	3	3	9
B5	Drinking water treatment plants (M)		3	3	3	9
B5	Food processing (M)		3	3	3	9
B5	Hardware/lumber/parts stores (M)		3	3	3	9
B5	Hospitals (M)		3	3	3	9
B5	Housing - high density (>1 house/0.5 acres) (M)		3	3	3	9
B5	Parking lots/malls (>50 spaces) (M)		3	3	3	9
B5	Parks (M)		3	3	3	9
B5	Septic systems - high density (>1/acre) (VH if in Zone A, otherwise M)		3	3	3	9
B5	Transportation corridors - Freeways/state highways (M)		3	3	3	9
B5	Transportation corridors - Historic railroad right-of-ways (M)		3	3	3	9
B5	Transportation corridors - Road Right-of-ways (herbicide use areas) (M)		3	3	3	9
B5	Wells - Water supply (M)		3	3	3	9
B10	Furniture repair/ manufacturing (H)		5	1	3	9
B10	Machine shops (H)		5	1	3	9
B10	Railroad yards/ maintenance/ fueling areas (H)		5	1	3	9
B10	Wood preserving/treating (H)		5	1	3	9
Α	Agricultural Drainage (H in Zone A, otherwise M)		5	0	3	8
Α	Chemical/petroleum pipelines (H)		5	0	3	8
Α	Farm machinery repair (H)		5	0	3	8
Α	Illegal activities/ unauthorized dumping (H)		5	0	3	8
Α	Lumber processing and manufacturing (H)		5	0	3	8
Α	NPDES/WDR permitted discharges (H)		5	0	3	8
Α	Pesticide/fertilizer/ petroleum storage & transfer areas (H)		5	0	3	8
Α	Underground storage tanks - Not yet upgraded or registered tanks (H)		5	0	3	8
Α	Wells - Agricultural/Irrigation (H)		5	0	3	8
Α	Wells - Oil, Gas, Geothermal (H)		5	0	3	8
B5	Chemical/petroleum pipelines (H)		5	0	3	8
B5	Farm machinery repair (H)		5	0	3	8

^{* =} A contaminant potentially associated with this activity has been detected in the water supply.

 System Name
 Sebastopol, City of
 System No.
 4910011

 Source Name
 WELL 02
 Source No.
 001
 PS Code
 06N/09W-02C01 M

Zone	PCA (Risk Ranking)	*	PCA Risk Points	Zone Points	PBE Points	Vulnerability Score
B5	Illegal activities/ unauthorized dumping (H)		5	0	3	8
B5	Lumber processing and manufacturing (H)		5	0	3	8
B5	NPDES/WDR permitted discharges (H)		5	0	3	8
B5	Pesticide/fertilizer/ petroleum storage & transfer areas (H)		5	0	3	8
B5	Underground storage tanks - Not yet upgraded or registered tanks (H)		5	0	3	8
B5	Wells - Agricultural/ Irrigation (H)		5	0	3	8
B5	Wells - Oil, Gas, Geothermal (H)		5	0	3	8
B10	Chemical/petroleum pipelines (H)		5	0	3	8
B10	Farm machinery repair (H)		5	0	3	8
B10	Illegal activities/ unauthorized dumping (H)		5	0	3	8
B10	Lumber processing and manufacturing (H)		5	0	3	8
B10	NPDES/WDR permitted discharges (H)		5	0	3	8
B10	Pesticide/fertilizer/ petroleum storage & transfer areas (H)		5	0	3	8
B10	Underground storage tanks - Not yet upgraded or registered tanks (H)		5	0	3	8
B10	Wells - Agricultural/ Irrigation (H)		5	0	3	8
B10	Wells - Oil, Gas, Geothermal (H)		5	0	3	8

^{* =} A contaminant potentially associated with this activity has been detected in the water supply.

